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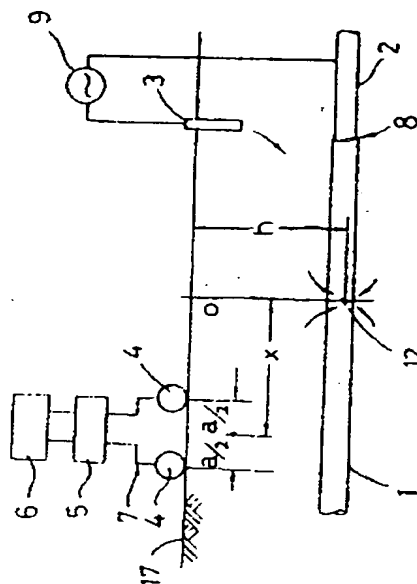
APPLICATION DATE : 01-10-84
APPLICATION NUMBER : 59204128

APPLICANT : NIPPON STEEL CORP;

INVENTOR : SHIMIZU OSAHISA;

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TITLE : DAMAGED POSITION LOCATING
METHOD OF CORROSION
PREVENTIVE COVER OF BURIED
METALLIC PIPE



ABSTRACT : PURPOSE: To contrive improvement of detection accuracy, by applying a signal voltage of an order of 1~10Hz between a pipe covered with anti-corrosion substance being buried in the ground and an opposedly installed electrode also embedded in the ground, and detecting a position where the minimum value of two maximum values of ground surface electric potential differences is indicated in an indicator.

CONSTITUTION: A signal voltage of an order of 1~10Hz is applied between a metallic pipe 2 covered on its surface with anti-corrosion substance and buried in the ground and an electrode positioned opposedly to the pipe and embedded in the ground also, and a detecting apparatus 7 provided with two electrodes 4 arranged with the specified distance apart along the longitudinal direction of the pipe 2, filter 5 and indicator 6 is made to travel along the ground surface just above the pipe 2. Further, a potential difference of the two points on the ground surface just above the pipe 2 is detected continuously and noises of DC- and AC-portions contained in a detecting signal emitted from the filter 5 and noise of the detecting signal are removed and thus, a position of the minimum value between two positions, where the ground surface potential difference shown in the apparatus 6 is indicated as maximum, is detected and accurate location of the damaged position of the pipe 2 is made available.

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